MONTHLY WEATHER MAP

METEOROLOGICAL SERVICE, DOMINION OF CANADA

JANUARY 1930

TEMPERATURE

The month was characterized by successive high pressure areas which passed south from Alaska along or close to the Rocky Mountains, thence spreading out into the Great Plains. The high pressure systems were, for the most part, considerably west of their usual path. As a consequence mean temperatures in British Columbia were much lower than are usual, (by twenty degrees in the southern interior) while in the Mackenzie valley mean temperatures were much milder than usual, (the excess at the mouth of the Mackenzie approximately eighteen degrees and at Simpson thirteen degrees).

From Lake Huron westward over the prairies the month was colder than usual, by six to nine degrees for the most part. In eastern Ontario, Quebec, part of southern New Brunswick and part of Nova Scotia, mean temperatures exceeded the normal January temperature, by four to six degrees in southwestern Quebec and by one to three degrees over the greater part of the remainder.

In northern New Brunswick there was a small deficiency while in Newfoundland the deficiency was three degrees on the south and west coasts and four to six degrees on the east coast.

PRECIPITATION

The month was quite dry from the Pacific coast to the head of the Great Lakes, and also through northern Ontario into northern Quebec. In parts of southern Ontario the snowfall was unusually heavy and the same condition prevailed largely in western Quebec. In Prince Edward Island and part of southern Nova Scotia precipitation was considerably in excess while in New Brunswick it was generally less than normal.

BRITISH COLUMBIA

The month was very much colder than a normal January in the interior, the deficiency amounting to eighteen degrees at Prince George and to twenty degrees at Kamloops, while on the coast it was about six to eight degrees.

On Vancouver Island and in the lower Fraser valley it was the driest and sunniest January on record. Skating on outdoor ice was possible for a long period, while frost extended to a depth of twelve inches in the ground at Victoria and to twenty inches on the lower mainland, both unusual phenomena in this region.

In the Okanagan and Kootenay valleys temperatures fell below zero on many days, ice on the interior lakes interfering greatly with navigation. Precipitation was everywhere less than the normal amount.

ALBERTA, SASKATCHEWAN and MANITOBA

January was four to six degrees below normal temperature in Manitoba, six to nine degrees below normal in southern Saskatchewan and southern Alberta. In the Grande Prairie and Peace-Athabaska region north of Edmonton temperatures were a little above normal. About half the usual amount of snow fell during the month.

ONTARIO

In northern Ontario January was colder and dryer than usual. The deficiency of temperature was about five degrees north of Lake Superior and two or three degrees north of Lake Huron On the eastern shores of Lake Huron the deficiency was two or three degrees while north of Lake Ontario to the Ottawa valley the month was two to five degrees above normal temperature.

In southern Ontario the snowfall was heavier than usual, especially in the region about the Georgian Bay, and on account of the steady cold of the last three weeks accumulated to a greater than normal depth.

QUEBEC

After the mild weather and rains of the first eight days, steady cold of a moderate character for the most part, followed. Mean temperatures were four to seven degrees above normal in southwestern Quebec and generally one to three degrees above elsewhere except on Anticosti and in the Gaspé peninsula where they were slightly subnormal.

Except on Anticosti and in the Gaspé peninsula and in the northern districts where snow was light, snowfall was heavy while the rains of the first week were greater than usually occur in January.

ATLANTIC PROVINCES

Mean temperatures were generally above normal in Nova Scotia except on Cape Breton Island and in Guysborough and Antigonish counties. In parts of the Annapolis valley and about the Minas Basin the normal mean was exceeded by two to four degrees.

In northern New Brunswick mean temperatures were about one degree below normal except on the coast where they were two or three degrees below normal. In the southern counties there was a slight excess except southwest of the River St. John where the month was two to four degrees warmer than a normal January. On Prince Edward Island temperatures were normal.

In New Brunswick precipitation was generally slightly below the normal amount. On Prince Edward Island and in southern Nova Scotia it was considerably in excess but elsewhere in Nova Scotia slightly deficient.

HUDSON STRAIT

The mean temperature was normal at Nottingham, two degrees above normal at Hope's Advance and one degree above normal at Resolution Island. The temperature was apparently considerably milder than usual on the Canadian and Greenland sides of the Polar Basin.

SPECIAL REPORTS

NOTE—Column H is Highest Temperature; Column L is Lowest Temperature; Column P is Precipitation in inches; Column I denotes total of bright sunshine in hours during the month; Column Sg denotes depth of snow on ground in inches, where given.

BRITISH COLUMBIA

STATION	H	L	P	I	STATION	H	L	P	I	STATION	H	L	P	I
Victoria	47°	15°	1.0	138	Vancouver	45°	11°	2.7	101	Cranbrook	39°	-34°	0.0	
Goldstream Lake	...	...	3.2		New Westminster	47°	11°	2.5		Field	28°	-29°	1.2	
Sooke	49°	16°	3.7		White Rock	48°	10°	2.6		Glacier	40°	-26°	2.8	
Duncan	48°	4°	1 9		Agassiz	45°	8°	3 6	103	Kamloops	43°	-17°	0.1	114
Alberni	46°	5°	3.0		Salmon Arm	38°	15°	1.5	89	Prince George	35°	-38°	0 1	
Nanaimo	45°	12°	2 3	73	Oliver	39°	-9°	0 5	101	Prince Rupert	44°	12°	2.4	
Courtenay	...	...	3.9		Vernon	35°	17°	1 0	112					

ALBERTA, SASKATCHEWAN, and MANITOBA

STATION	H	L	P	I	Sg.	SPECIAL REPORTS
Beaver Lodge	25°	-38°	0.7	85		
Edmonton	25°	-42°	0.6	94		January has been a consistently cold month from 1st to 21st inclusive with slight relief on three days during that period. Snowfall well distributed. Stock remained in open in good condition. River ice 30 inches thick, safe for heavy traffic from the 6th.
Calgary	42°	-38°	0.3	121		
Medicine Hat	32°	-32°	0.0	83	1	Ice 30 inches thick.
Prince Albert	21°	-56°	0.5		5	Ice 20 inches thick. Roads badly drifted.
Battleford	22°	-50°	0.3		14	Ice 34 inches thick.
Scott	21°	-45°	0.7	70		
Swift Current	26°	-38°	0.4	63		Continuous cold spell from 4th to 21st, rest of month good. Stock on range in poor condition. Farmers short of feed. Sleighing good, roads unfit for cars.
Moose Jaw	27°	-37°	0.2	68		
Qu'Appelle	26°	-44°	0.3	86		
Le Pas	23°	-44°	0.4			
Minnedosa	27°	-44°	0.2			Sleighing good, no motor traffic.
Winnipeg	23°	-35°	0.3	100	11	
Oak Bank	31°	-44°	0.2		15	
Birtle	18°	-43°	0.1		15	Month was cold and windy until the 23rd when the weather moderated. Stock on range are in good condition.
Treherne	30°	-39°	0.2		15	A very cold month.
St. Albans (Treesbank)	26°	-43°	...		14	Month was cold and breezy. Owing to a shortage of feed some cattle are in poor condition. Horses are doing fairly well in the open.
Brandon	27°	-45°	0.1	104	12	Extremely cold month. There is a shortage of feed. Ice on river 31 inches thick. Roads in good condition for sleighing, and, in some parts, for motors.
Waskada	27°	-41°	0.3			
Morden	36°	-32°	0.3	89		
Sprague	28°	-45°	0.3			
Dauphin	30°	-40°	...			
Pinawa	32°	-48°	0.6			
Graysville	16°	-37°	...			
Morris	25°	-39°	...		13	Very little snow fell during the month. Ice about 24 inches thick.

ONTARIO

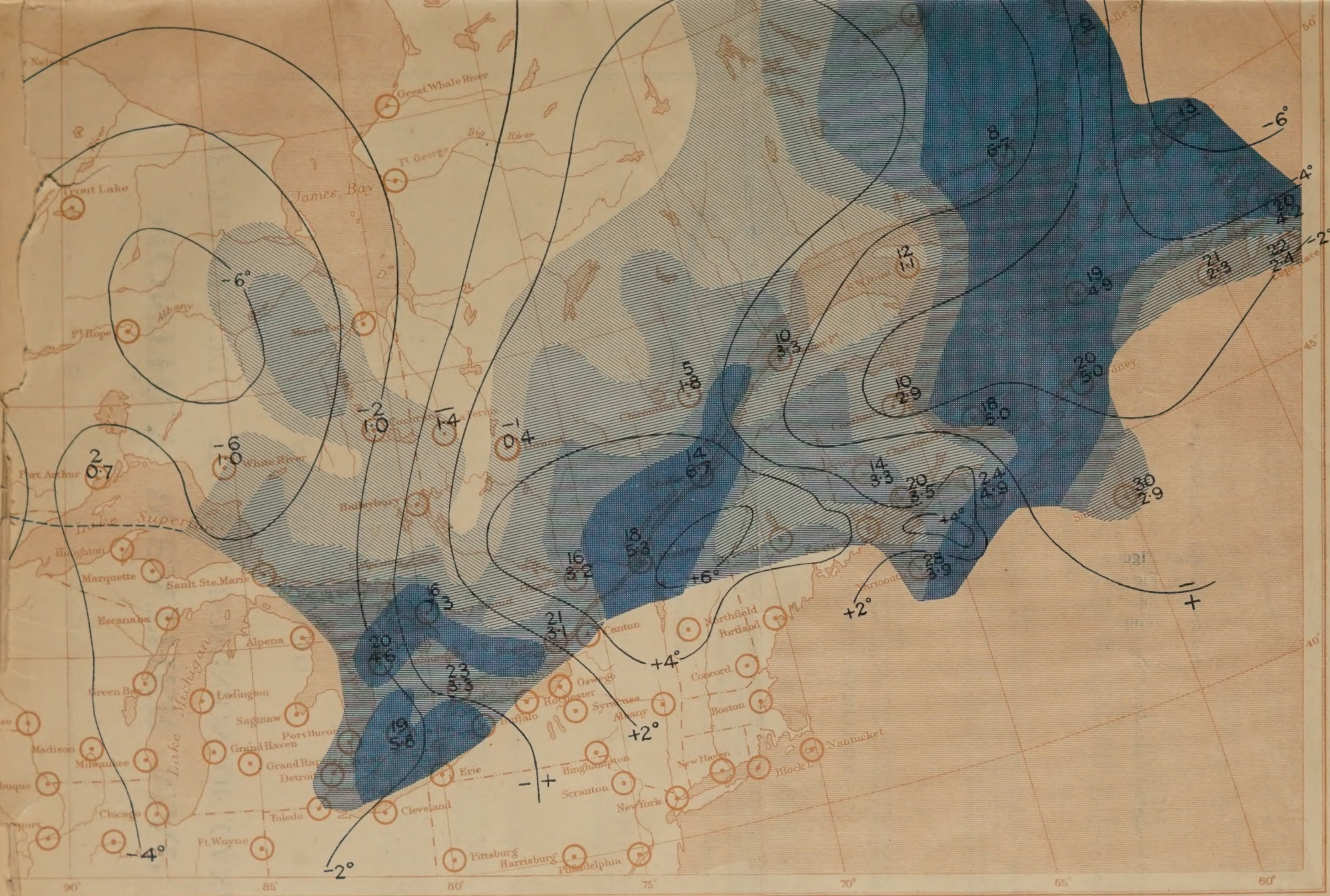
Kenora	30°	-41°	0.5		19	
Quorn	24°	-50°	0.2		24	
Port Arthur	36°	-28°	0.7		20	Ice extends about 12 miles out in Thunder Bay. About 1 mile from shore it is approximately 20 inches thick. Sleighing good.
Kapuskasing	32°	-40°	2.0	91		
Cochrane	35°	-30°	1.0		19	Ice on the lake is 26 inches thick.
White River	35°	-47°	1 0		28	Ice 28 inches thick.
Parry Sound	40°	-26°	7.3		30	
Scotia Junction	41°	-35°	3.7		27	On the lakes there are about 15 inches of ice which is much less than the usual amount.
Beatrice	42°	-35°	6 4		25	
Washago	...	...	3.5		24	There are 22 inches of ice on Lake Couchiching.
Barrie	43°	-12°	3.9		18	Ice 12 inches thick.
Beeton	47°	-17°	2.9		3	
Mount Forest	51°	-8°	2.0		36	During the first week of January, thawing weather brought the river to the flood stage but the remainder of the month was cold with zero temperatures on 3 days. Ice now being cut is 15 inches thick and beautifully clear.
Lucknow	38°	...	1.9			Ice about 12 inches thick. Good sleighing, no motor traffic.
Alton	45°	-15°	7.6		30	Good sleighing.
Walkerton	45°	-14°	9.9			During the mild, rainy first week rivers and streams reached an unusually high stage. Remainder of the month has been cold and snowy with interruptions to sleighing on a few days on account of snow drifts.
Southampton	48°	-9°	4.6		20	Steadily cold with good sleighing, except for one week. Ice 14 inches thick.
Brucefield	45°	-2°	3.2			First half of the month mild and rainy, last half stormy and cold,
Stratford	43°	-5°	5.1		18	Ice-cutting began on the 20th of January with ice 14 inches thick.
Woodstock	46°	-7°	3.7	81	8	Ice 20 inches thick. Stormy and changeable weather. Below zero five times during the month.
London	44°	-9°	5.8		7	Three days with temperature falling below zero.
Paris	47°	-6°	5.2		7	On the 8th and again on the 21th the ice broke and began to move out of the Grand River.
Harrow	47°	-12°	2 5	72		Ten inches of good clear ice on the lake shore.
Port Dover	44°	4°	6.2		6	Ice 20 inches thick. Much wet snow has adhered to the trees.
Simcoe	48°	-7°	6.2		5	Ice 10 to 12 inches thick on ponds. Early thaws have been followed by unusually cold and snowy weather.
Toronto	47°	-4°	3 3	83	7	
Bloomfield	48°	-24°	5.7		18	
Kingston	45°	-15°	3 1	64	12	Ice in the harbour 12 inches thick. Good sleighing after the 10th.
Peterboro'	46°	-19°	3.8		15	Ice is about 16 inches thick but of poor quality for cutting.
Queensboro'	44°	-34°	3.8		14	A large quantity of ice has already been harvested 16 inches thick and of good quality. Good sleighing most of the month.
Brockville	46°	-20°	3.4			The River St. Lawrence is frozen over at this point. Water is more plentiful in wells and ponds than for some months past.
Morrisburg	47°	-27°	4.			Ice on the canal 14 inches thick. Sleighing good.
Ottawa (Exp. Farm)	43°	-26°	2 9	68	18	During the mild weather at the end of the first week the rain considerably lowered the snow level on the ground. Ice 22 inches thick.
Sand Point	48°	-26°	2.4		10	Thickness of ice 20 inches.
Pembroke	46°	-25°	1.7		20	Ice on the Ottawa River is 18 inches deep.
Clontarf	46°	-25°	2.2		10	Ice 19 inches thick.

QUEBEC

STATION	H	L	P	I	Sg.	SPECIAL REPORTS
Cedars	47°	-15°	3.4		27	Heavy fogs on January 3rd and 8th.
Macdonald College	47°	-15°	4.6		13	Ice now being cut is 27 inches thick. Main highway open for traffic to Montreal.
Montréal			5.3	60		
Farnham	50°	-16°	4.2	69	25	During the mild weather of the first ten days ice largely disappeared. There is not enough ice at present to cut for next summer's use.
Brome	51°	-24°	4.6		12	Ice 12 to 14 inches thick. Roads sufficiently good for motor traffic in some sections.
Lennoxville	49°	-30°	5.1	77		No January since records began here has had more precipitation. The previous high record was January 1924 with 4.9.
Sherbrooke	51°	-19°	3.5	61	11	Cloudy or gloomy weather most of the month. Roads very good.
Sorel	44°	-19°	5.2		30	Ice is about 25 inches thick. Sleighing good since 11th.
Joliette	39°	-22°	3.5		15	Thickness of ice 30 inches. Roads good latter part of the month.
Nicolet	42°	-19°	6.5		20	
St. Gabriel de Brandon	38°	-24°	4.9			Very changeable weather with rain and snow. Frequent fogs first part of the month.
Donnacona	44°	-20°	6.5		27	Ice 26 inches thick but top 4 inches is frozen slush. Roads good for sleighs. Freezing rain on 1st and 2nd.
Beauceville	47°	-25°	5.8		54	Thawing first week, remainder very snowy.
Lake Mégantic	47°	-49°	3.0		28	Rainy on 7th, 8th and 9th. Ice about 13 inches thick and strong enough to carry traffic.
Québec	43°	-15°	6.7	66	34	Heavy rain on 2nd, 7th, 8th. Thickness of ice 26 inches. Maximum wind velocity 41 miles per hour on 10th.
Cap Rouge	43°	-16°	4.1	49	35	
St. Joachim	39°	-17°	3.1		30	Ice 26 inches thick.
Armagh	47°	-26°	5.3			
Bicquet	45°	-20°	4.7			Mild on 2nd, 3rd, 6th, 7th and 8th with heavy rain or sleet on 7th and 8th. Ice 30 inches thick.
Ste. Anne de la Pocatière	44°	-12°	2.6	67	60	Rainy on the 7th and 8th. Weather generally cloudy and windy.
Chicoutimi	44°	-20°	1.8		24	Ice 26 inches thick.
Roberval	...	-19°	2.7		42	Variable weather at the beginning of the month, then, for the most part, steadily cold with much more snow than last year.
Albanel	41°	-32°	0.9	75	24	
Huberdeau	45°	-22°	4.7		26	Ice 18 inches thick. Roads good.
St. Lin	42°	-22°	2.5			Roads good.
Maniwaki	42°	-27°	3.8			Second of January fog and thaw. Ninth Gatineau River frozen over. Twelfth silver thaw. Fifteenth rain, snow and hail.
Mont Laurier	43°	-32°	3.7			
Ville Marie	36°	-22°	0.7		20	
La Ferme	35°	-31°	1.4			
Abitibi	35°	-28°	1.0		22	Steadily cold, mostly fine with moderate winds and light snow. Ideal weather for work in the forest. Cutting of pulp wood progressing rapidly with barely enough snow to make good roads.

ATLANTIC PROVINCES

St. John	48°	-4°	3.5	108	6	Good sleighing. Ice on the lakes 18 inches.
Aroostook	48°	-32°	3.5		18	The thaw during the early part of the month melted the snow until the bare ground was visible.
Bathurst	48°	-26°	2.2		28	
Chatham	50°	-27°	2.9		20	On the Miramichi River there are 22 inches of ice.
Fredericton	52°	-20°	3.3	102	31	
Fredericton (Experimental Farm)	51°	-20°	3.3	106	18	First half of the month moderately cold, second half severe winter weather.
Gagetown	50°	-16°	2.1		12	Good sleighing.
Grand Falls	45°	-29°	3.1		30	
Harvey	50°	-23°	2.8		21	
Moncton	63°	-22°	2.8			
Musquash	48°	-16°	2.7		5	On the lakes the ice is 21 inches thick.
McAdam Junction	50°	-22°	3.6		18	Cold, snowy month.
Nepisiquit Falls	47°	-31°	3.0		28	
Sussex	50°	-18°	2.9		10	Good sleighing.
Woodstock	53°	-28°	3.5		32	
Digby	61°	4°	3.0		6	January weather was generally mild and pleasant with many snowflurries but no heavy storms. Ice already cut on the ponds has been 10 inches thick.
Liverpool	58°	-14°	6.4		7	Six inches of ice on the lakes.
Nappan	52°	-25°	3.5	95		Lumbering operations have been facilitated by the weather of the latter part of the month. During the first week a heavy thaw removed snow but the fields were bare for only a few days.
Sydney	50°	-7°	5.0		24	There are 8 inches of ice on the harbour and 18 inches on lakes and ponds.
Upper Stewiacke	58°	-16°	2.5		6	This has been a good winter for lumbering. All ice harvested 12 to 14 inches thick.
Wolfville	60°	-6°	3.1	98	8	The weather of the month has been characterized by frequent mild spells and by light winds. There has been good sleighing.
Yarmouth	51°	6°	3.9		4	The rivers and lakes were open and there was very little frost in the ground until after the middle of the month. Roads are in bad condition.
Charlottetown	48°	-13°	4.4		24	
Charlottetown (Experimental Farm)	47°	-17°	5.0	90		The month was cold and stormy with sudden changes and silver thaws. Roads are in good condition for hauling.



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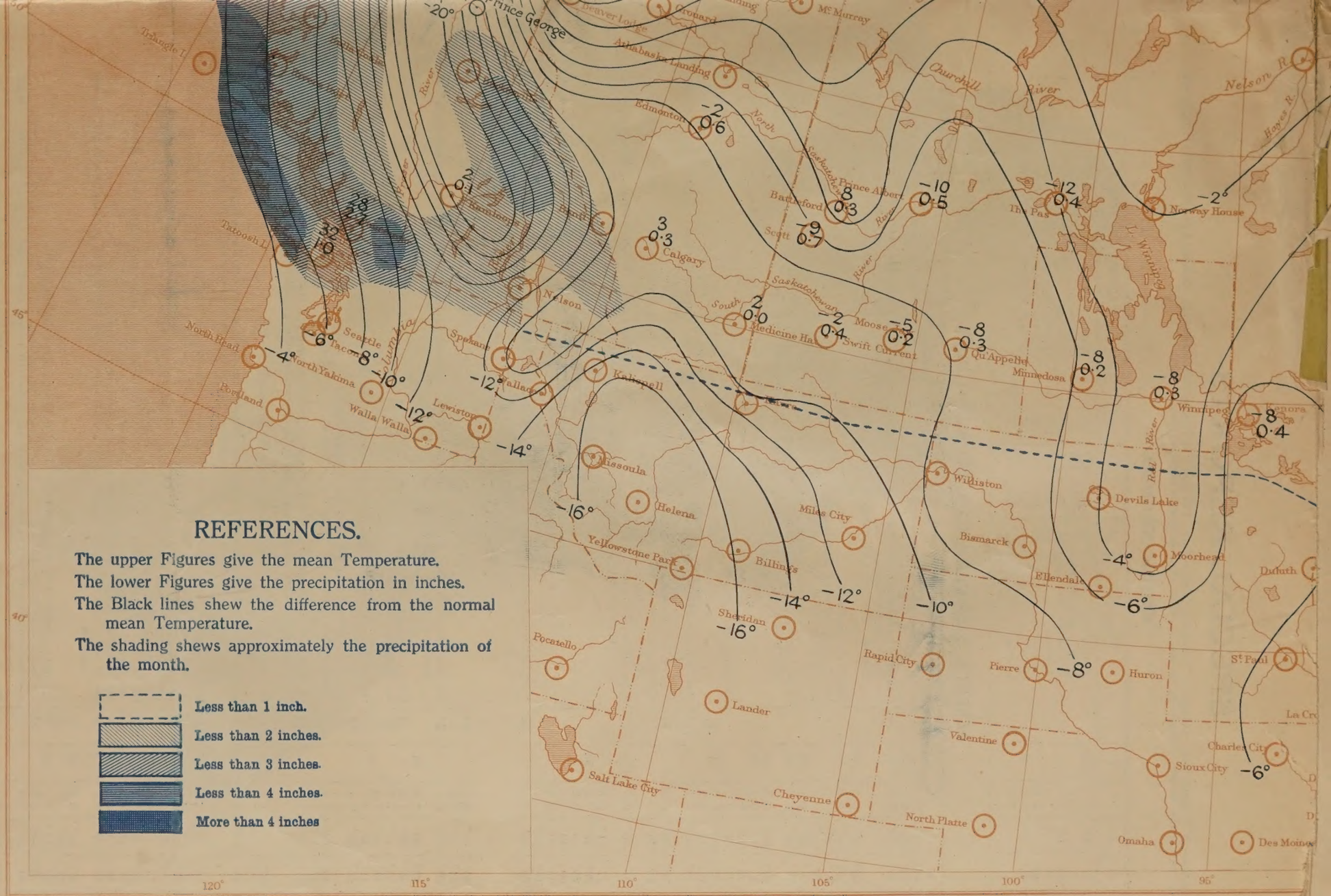
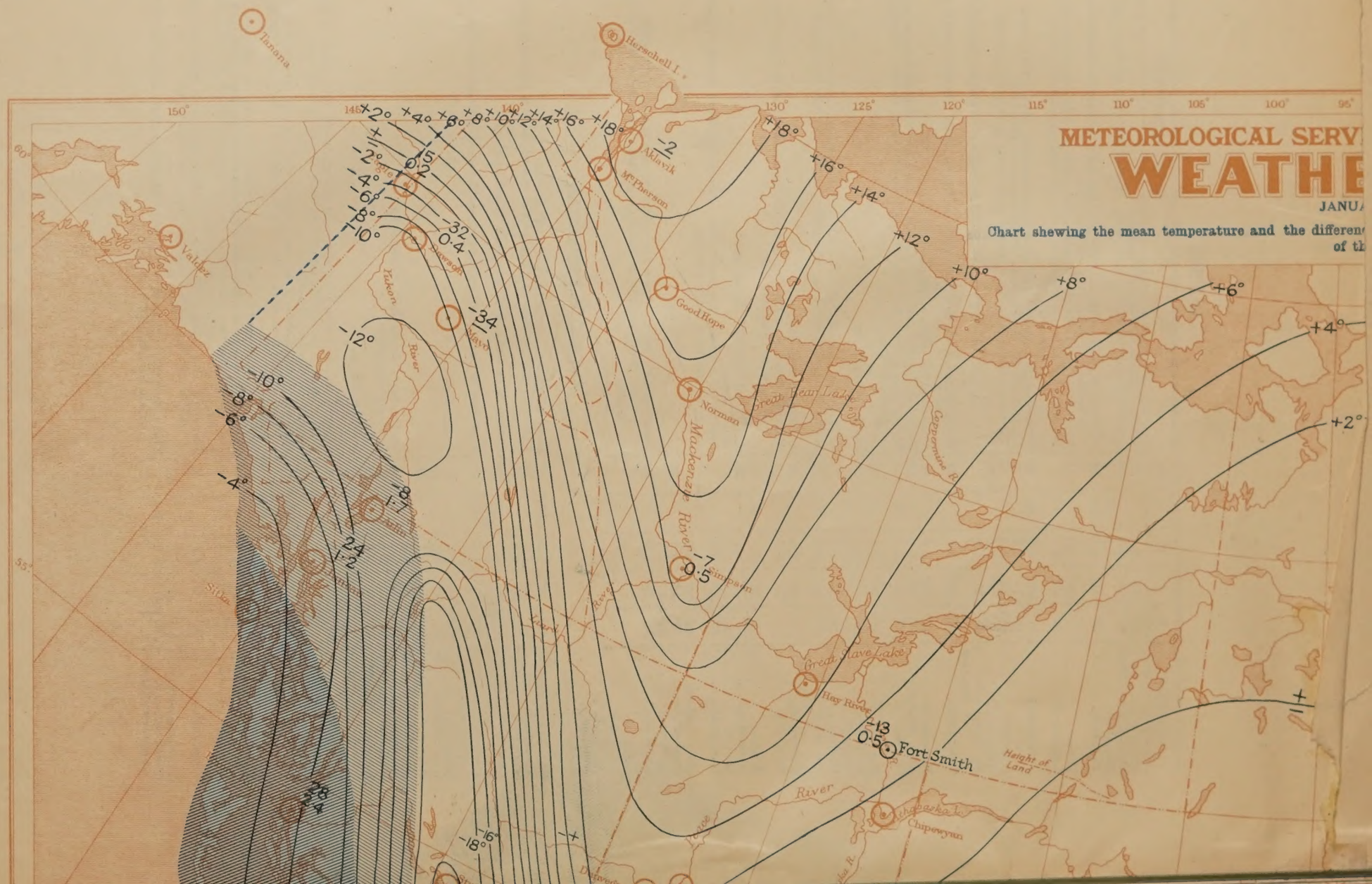
R MAP
1930
om normal mean temperature; also total precipitation
onth.
Ellesmere Island
Pond Inlet
Lake Harbour
Pangnirtung
Cape Wolstenholme
Port Harrison
Great Whale R.
Nottingham
Hope's Advance
Resolution Island
Burwell
Nain
Okak Bay
Hebron
Ungava Bay
Labrador
HUDSON'S
+10°
+8°
+6°
+4°
+2°
-2°
-4°
-21
0·2
-16
-11
9
11
18
20


REFERENCES.
The upper Figures give the mean Temperature.
The lower Figures give the precipitation in inches.
The Black lines shew the difference from the normal mean Temperature.
The shading shews approximately the precipitation of the month.
Less than 1 inch.
Less than 2 inches.
Less than 3 inches.
Less than 4 inches.
More than 4 inches
Prince George
Edmonton
Calgary
Medicine Hat
Swift Current
Prince Albert
Battleford
The Pas
Norway House
Moose Jaw
Qu'Appelle
Minnedosa
Winnipeg
Regina
Saskatoon
Kalispell
Missoula
Helena
Miles City
Billings
Williston
Devils Lake
Bismarck
Moorhead
Duluth
Ellendale
Yellowstone Park
Sheridan
Rapid City
Pierre
Huron
St Paul
Lander
Valentine
Sioux City
Charles City
Salt Lake City
Cheyenne
North Platte
Omaha
Des Moines
Pocatello
Spokane
Lewiston
Walla Walla
North Yakima
Seattle
Portland
Nelson
Athabasca Landing
Mc Murray
Churchill River
Nelson R.
Hayes R.
Winnipeg R.
Saskatchewan River
Scott
Battleford
120°
115°
110°
105°
100°
95°
50°
45°
40°


METEOROLOGICAL SERV
WEATHE
JANU
Chart shewing the mean temperature and the differen
of th
Herschell I.
Aklavik
McPherson
Good Hope
Norman
Fort Smith
Chipewyan
Great Bear Lake
Great Slave Lake
Mackenzie River
Yukon
Peace River
Height of Land
Hay River
Liard
Valdez
Sitka
Dawson
Mayo
Whitehorse
Ft. Simpson
Ft. Wrangell
Ft. Nelson
Jasper
Edmonton
Prince George
Prince Rupert
Vancouver
Victoria
Seattle
Portland
Spokane
Calgary
Banff
Kamloops
Nelson
Medicine Hat
Swift Current
Regina
Moose Jaw
Prince Albert
Saskatoon
Battleford
Winnipeg
Brandon
Minot
Grand Forks
Devils Lake
Bismarck
Williston
Duluth
Minneapolis
Rochester
Sault Ste. Marie
Port Arthur
Fort William
Kenora
Sioux Lookout
Thunder Bay
Sudbury
Toronto
Ottawa
Kingston
Montreal
Quebec
Yarmouth
Halifax
Sydney
Charlottetown
Moncton
St. John
Fredericton
Boston
Portland
Bangor
Caribou
Eastport
Houlton
Presque Isle
Millinocket
Augusta
Lewiston
Concord
Burlington
Albany
Syracuse
Rochester
Buffalo
Erie
Cleveland
Toledo
Detroit
Port Huron
Saginaw
Grand Rapids
Muskegon
Milwaukee
Madison
La Crosse
Eau Claire
Duluth
Minneapolis
St. Paul
Rochester
Mason City
Sioux City
Omaha
Lincoln
Grand Island
North Platte
Scottsbluff
Cheyenne
Denver
Colorado Springs
Pueblo
Salt Lake City
Ogden
Provo
Boise
Pocatello
Idaho Falls
Lewiston
Spokane
Walla Walla
Yakima
Seattle
Tacoma
Olympia
Aberdeen
Hoquiam
Astoria
Portland
Eugene
Salem
Medford
Klamath Falls
Reno
Carson City
Winnemucca
Elko
Ely
Las Vegas
Tonopah
Goldfield
Bishop
Fresno
Visalia
Bakersfield
Los Angeles
San Diego
Santa Barbara
San Luis Obispo
Monterey
San Francisco
Oakland
Sacramento
Stockton
Modesto
Merced
Yosemite
Redding
Eureka
Crescent City
Ukiah
Santa Rosa
Napa
Vallejo
Martinez
Richmond
Berkeley
Alameda
San Mateo
Palo Alto
San Jose
Santa Cruz
Watsonville
Salinas
Hollister
Gilroy
Morgan Hill
Los Gatos
Saratoga
Cupertino
Sunnyvale
Mountain View
Los Altos
Menlo Park
Redwood City
San Carlos
Belmont
San Mateo
Burlingame
Millbrae
San Bruno
South San Francisco
Daly City
Colma
Brisbane
Bayshore
Candlestick Park
Hunters Point
Alameda
Oakland
Berkeley
Albany
El Cerrito
Richmond
San Pablo
Pinole
Hercules
Crockett
Martinez
Concord
Pleasant Hill
Walnut Creek
Danville
San Ramon
Livermore
Pleasanton
Dublin
Hayward
San Leandro
Castro Valley
San Lorenzo
Alameda
Oakland
Berkeley
Albany
El Cerrito
Richmond
San Pablo
Pinole
Hercules
Crockett
Martinez
Concord
Pleasant Hill
Walnut Creek
Danville
San Ramon
Livermore
Pleasanton
Dublin
Hayward
San Leandro
Castro Valley
San Lorenzo